

# **Presentation Overview**

- Major Revisions
- Scope of the Measure
- Discussion Items
- Next Steps
- Questions

#### Major Revisions

- Applicability
- Exemption Conditions
- Surface Emissions Monitoring Requirements

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# **ARB Proposed Control Measure**

### Major Revisions (Cont.)

- Calculations to Determine Landfill Gas Heat Input Capacity
- Time Requirement for Installing GCCS at Closed or Inactive MSW Landfills
- Cover Integrity Monitoring

### Major Revisions (Cont.)

- Component Leak Testing Standard
- Methane Outlet Concentration for Lean Burn Engines

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# **ARB Proposed Control Measure**

#### Scope of the Measure

- Affects all MSW landfills that received waste after January 1,1977
- ≥450,000 tons of WIP
  - Install a gas collection and control system, unless exemption requirements are met
  - Comply with statewide standards
- <450,000 tons of WIP</p>
  - Must comply with specified reporting requirements

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#### Scope of the Measure

- Exemption allowed if owner or operator can demonstrate:
  - Landfill gas heat input capacity of < 3.0MMBtu/hr; and</p>
  - Meets specified reporting requirements

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## **ARB Proposed Control Measure**

# Scope of the Measure (cont.)

- Prepare a Design Plan subject to approval (12 months)
- Install and operate GCCS 18 months after approval of Design Plan; 30 months for closed or inactive MSW landfills
- Flexible control options including enclosed flares and landfill gas-to-energy facilities
- Open flares allowed only under temporary conditions

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#### Scope of the Measure (Cont.)

- Performance Based Standards
  - 500 ppm instantaneous surface methane emission limit
  - 25 ppm integrated surface methane emission limit
  - 500 ppm component leak limit
  - Higher destruction efficiencies for gas control devices

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## **ARB Proposed Control Measure**

## Scope of the Measure (Cont.)

- Surface Monitoring
  - Quarterly surface emission measurements for active landfills
  - Quarterly surface emission measurements reduced to annual (if in compliance) for inactive or closed landfills, or areas of active landfills that are closed or inactive
  - 25-foot walking pattern spacing increased to 100-foot spacing (if in compliance)

#### **Discussion Items**

- Implementation and Enforcement of the Draft Control Measure
- Economic Analysis
  - Examine Incremental Cost of Compliance
  - Monitoring, Recordkeeping, and Reporting Costs
  - Control Cost Scenarios
  - Estimate Number of Landfills That Will Move In or Out of Compliance in Near Future
  - Other Costs

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# **Next Steps**

- Continue to work with stakeholders
- Late February 2009 Staff Report available for a 45-day formal public review and comment period
- April 2009 Air Resources Board hearing to consider control measure adoption
- Fall 2009 Anticipated effective date of the control measure

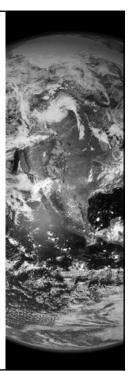
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Landfill Methane Control Measure Website: http://www.arb.ca.gov/cc/landfills/landfills.htm



# Questions about the Draft Landfill Methane Control Measure?

